

the eighth segment is provided with lateral combs of from 6 to 8 long teeth and from 1 to 4 short teeth, like figure 9, between them. On all these segments there is a small chitinated plate near the anterior margin and around spot behind,—all most obvious on the hinder segments. Joints 3 to 7 have also a pal-mate hair on each side near the posterior margin. Figures 7 and 8 show a lateral and dorsal view, respectively, of the respiratory structures. The ninth segment bears a chitinated saddle; on the dorsal surface are two plumose hairs and a tuft of long, sparsely branched hairs. On the ventral surface is a fan-like tuft of branched hair. The tracheal gills are less than half as long as those in *A. maculipennis* or *A. punctipennis*.

Altogether, this larva is separable from those of its allies by satisfactory, readily recognizable characters.

The Coleoptera of the Sacramento Mountains of New Mexico.—II.

BY W. KNAUS, McPherson, Kansas.

I include under the above head several species of *Cicindelidae* and a few other species taken at Santa Rosa and Alamogordo, New Mexico.

My second trip to the Sacramento Mountains was made the first week in August, 1903, and a week was spent at Cloudcroft and immediate vicinity. Collecting covered the dates August 3rd to 10th. Many species taken in June, 1902, were also found here in August, but a majority of the species had disappeared and had been succeeded by others at the latter date. Insect life in general, however, was not so prolific as in the earlier months of the year previous.

The elevation of Cloudcroft, 9000 feet, made the nights cool, and on only one evening, August 9th, was the temperature high enough to tempt any considerable numbers of Coleoptera to come to the electric lights.

The total number of species in this list, about 130, includes none that were given in my first list, published in the News for June, 1903. Of those listed in this paper, Mr. T. D. A. Cockerell informs me that eight genera and twenty-five species

are new to the New Mexican fauna. The collecting the past two seasons in these mountains has added more than seventy-five species and twenty-five genera to the New Mexican list of Coleoptera.

Thanks are due to Mr. H. C. Fall, of Pasadena, California, for identifications, and to Mr. T. D. A. Cockerell, of Colorado Springs, Col., for notes.

Collections July 31st were at Santa Rosa, and August 10th at Alamogordo.

N. = new to New Mexico. G.N. = genus new to New Mexico. R. = recorded (in N. M.) only from.

- 1, 12 *Tetracha carolina* Linn. At electric light, Alamogordo.
- 2, 25c *Cicindela cinnarrona* Lec. In canyon near summit, over 8500 ft. high, Cloudcroft; only one specimen taken but others seen.
- 3, 28 *Cicindela fulgida* Say. On alkali flats near Santa Rosa; common. R. Albuquerque.
- 4, 40 *Cicindela punctulata* Fab. Santa Rosa, on alkali flats.
- 5, 40a " *micans* Fab. Common at Santa Rosa, on alkali flats. Brilliant blue and green colored specimens.
- 6, 51 *Cicindela sperata* Lec. Found on wet mud along margin of Pecos River, Santa Rosa.
- 7, 57 *Cicindela lemniscata* Lec. Taken in numbers at electric light at Alamogordo.
- 8, 58 *Cicindela circumpecta* Laf. Common on alkali flats at Santa Rosa.
- 9, 59 var. " *apicalis* W. Horn. On alkali flats near Santa Rosa. N.
- 10, 64b " *16 punctata* Klug. One specimen at the edge of Pecos River Santa Rosa.
- 11, 86 *Cychrus elevatus* Fab. One specimen, much more slender than typical form, was taken in canyon near Crystal Springs canyon, near Cloudcroft, at an elevation of 8500 feet, August 9th. One of the most southern records of this species. R. Beulah, Gallinas Canyon and Santa Fé Canyon, all in northern New Mexico.
- 12, 119b & c *Carabus agassizi oregonensis* Lec. Rather common in the canyons near Cloudcroft, under logs, chips, etc. Listed as a variety of *lucidatus* in New Mexican lists.
- 13, 133 *Calosoma peregrinator* Guer. One specimen under electric light at Alamogordo.
- 14, 134 *Calosoma lugubre* Lec. One specimen at Cloudcroft. R. Roswell.
- 15, 388 *Bembidium intermedium* Kirby. Santa Rosa; common.
- 16, 678 *Amara remotestriata* Dej. Several specimens at Cloudcroft. R. Santa Fé Canyon (Snow), top of Las Vegas Range

- (Cockerell), Las Vegas (Martin Cockerell), Las Vegas Hot Springs (Cockerell), Havery's Ranch (Miss Ruth Reynolds), all in northern New Mexico.
- 17, Small Carabid near *Bembidium*, one specimen at electric light at Alamogordo.
- 18, 756 *Platynus dissectus* Lec. Number of specimens taken, but always singly; specimens not quite typical; Cloudcroft.
- 19, 940 *Cymindis cribricollis* Dej. Two specimens, Cloudcroft. New to southern New Mexico.
- 20, 1054 *Nothopus zabrodes* Lec. One or two specimens, Cloudcroft.
- 21, 1168 *Discoderus impotens* Lec. Two specimens, electric light. Alamogordo.
- 23, 1158 *Bradycellus rupestris* Say. One specimen at electric light, Alamogordo. New to southern New Mexico. Var. *congener* occurs in Mesilla Valley.
- 24, 1495 *Thermonectes ornatcollis* Aube. One specimen, Santa Rosa. N.
- 25, 1586 *Tropisternus triangularis* Say. Electric light. Alamogordo.
- 26, 1626 *Philhydrus nebulosus* Say. One specimen, Santa Rosa.
- 27, 9318 *Cymbiodyla morata* Horn. Two specimens, James Canyon, near Cloudcroft. R. near the Moqui villages.
- 28, 1700 *Necrophorus guttula* Mots. Two specimens, Cloudcroft.
- 29, 1706 *Silpha lapponica* Hbst. One specimen, Cloudcroft.
- 30, *Agathidium* sp. One specimen, Cloudcroft.
- 31, }
32, }
33, } *Aleochara*. Four species under decaying bark and at sap.
34, }
- 35, 2098 *Quedius explanatus* Lec. Several specimens under stones and logs. R. Santa Fé Canyon.
- 36, 2100 *Quedius fulgidus* Fab. One specimen, Cloudcroft. R. Albuquerque.
- 37, 2148 *Tympanophorus puncticollis* Er. One specimen, Cloudcroft. N. genus and species.
- 38, 2167? *Philonthus hepaticus* Er. One specimen, Cloudcroft. R. Las Vegas.
- 39, *Staphylinid* specimen near *Lithocarus*, under bark, near Cloudcroft.
- 40, *Tachyphorus*, sp. dubious. One specimen, Cloudcroft.
- 41, *Medon*, species probably not described. One specimen, Cloudcroft.
- 42, 4683 *Pseudopsis sulcata* Newm. One specimen, Cloudcroft. N. (genus and species).
- 43, 2782 *Apocellus sphericollis* Say. One specimen, Santa Rosa.
- 44, 2841 *Homatium pucillum* Grav. Three specimens, Cloudcroft. N.
- 45, 2900 *Siagonum punctatum* Lec. One specimen, under bark, Cloudcroft. N. (genus and species).

- 46, *Bæocera* n. sp. near *speculifer* Casey. Cloudcroft. G.N.
 47, *Olibrus*, sp. dubious. One specimen, Wootens near Cloudcroft.
 48, 2996a " *nigricollis* Lec. Common at Wootens near Cloudcroft. N.
 49, 3000 *Olibrus semistriatus* Lec. Same as 2996a. R. Beulah.
 50, 3037 *Megilla vittigera* Mann. Santa Rosa and Cloudcroft.
 51, 3056 *Coccinella trifasciata* Linn. Four specimens at Wootens.
 52, 3069 *Harmonia picta* Rand. One specimen, Wootens.
 53, *Anatis lecontei* Casey. One specimen near Cloudcroft.
 54, 3078a *Psyllobora tædata* Lec. Two specimens at Wootens.
 55, 3101 *Hyperaspis fimbriolata* Melsh. Two specimens near Cloudcroft.
 56, *Scymnus* sp. One specimen, Wootens.
 57, 9914 *Lasconotus concavus* Cas. One specimen, Cloudcroft. N. (genus and species).
 58, *Narthecius* sp. One specimen, Cloudcroft. G.N.
 59, 3525 *Hister punctiger* Lec. Two specimens, Cloudcroft. R. Beulah.
 60, 3586 *Saprinus oregonensis* Lec. Several specimens, Santa Rosa.
 61, " New sp. near *pectoralis* group. Santa Ro.
 62, 3673 *Carpophilus pallipennis* Say. One specimen, Cloudcroft.
 63, 3719 *Nitidula bipunctata* Linn. Two specimens near Cloudcroft. N.
 64, 3769 *Rhizophagus procerus* Cas. One specimen, Cloudcroft. N.
 65, 3810 *Melanophthalmus americana* Mann. Two specimens, Cloudcroft.
 66, *Europs* n. sp. One specimen, Cloudcroft. G. N.
 67, 4065 *Epiphanis cornutus* Esch. One specimen, Cloudcroft. N. G. & S.
 68, 4253 *Drasterius elegans* Fab. Two specimens at light, Alamogordo.
 69, *Elater* sp. One specimen, Cloudcroft.
 70, 4322 *Melanotus fissilis* Say. Two specimens, Cloudcroft.
 71, 4400 var. *Athous cribratus* Lec. Two specimens, Cloudcroft.
 72, 4606a *Buprestis rusticorum* Kirby. One specimen, Cloudcroft.
 73, 4814 *Ellychnia californica* Mots. Two specimens, Cloudcroft.
 74, 5002 *Collops bipunctatus* Say. Several specimens, Cloudcroft.
 75, 5109 *Listrus senilis* Lec. Wootens; common.
 76, 5620? *Trox sonora* Lec. One specimen, Cloudcroft.
 77, 5704 *Diplotaxis brevicollis* Lec. One specimen, Cloudcroft.
 78, 5806 *Listrochelus disparalis* Horn. Two specimens, male and female, at light, Cloudcroft.
 79, 5858 *Cyclocephala immaculata* Oliv. One specimen, electric light. Alamogordo.
 80, 5865 *Cyclocephala dimidiata* Burn. One specimen at light Alamogordo.
 81, 5869 *Ligyris gibbosis* De G. Several specimens at electric light, Alamogordo.
 82, 5878 *Orizabus snowi* Horn. Several specimens, very small, under stones and logs, Cloudcroft.
 83, 5887 *Dynastes grantii* Horn. One specimen taken at Cloudcroft in July. Unusually high elevation. (Silver City highest previous record known to Cockerell.)

- 84, 5893 *Allorhina mutabilis* Gory. One specimen at Wootens. Higher up than usual.
- 85, 5911 *Euphoria inda* Linn. Several specimens at Santa Rosa.
- 86, 5950 *Ergates spiculatus* Lec. One specimen at electric light, Cloudcroft. New to southern New Mexico.
- 87, 5965 *Homæsthesia integer* Lec. One specimen, Cloudcroft. N.
- 88, *Tragosoma sodalis* Casey. One specimen, Cloudcroft. N.
- 89, " *parvicollis* Cas. Two specimens, Cloudcroft. N.
- 90, 5976 *Criocephalus asperatus* Lec. One specimen, Cloudcroft. Not before recorded south of Albuquerque.
- 91, 6513 var. *Tetraopes femoratus* Lec. One specimen at Wootens.
- 92, 6628 *Cryptocephalus venustus* Fab. Two specimens, Santa Rosa. N.
- 93, 6707 *Diachus auratus* Fab. Two specimens, Cloudcroft.
- 94, 6879 *Diabrotica tricincla* Say. Several specimens, Santa Rosa.
- 95, 6880a " *tenella* Lec. One specimen, Alamogordo.
- 96, 6893a *Trirhabda luleocincta* Lec. Several specimens, Wootens.
- 97, 6898 *Galeruca externa* Say. Common at Cloudcroft.
- 98, 6909 " *notulata* Fab. Several specimens, Cloudcroft. Very high altitude.
- 99, 6957 *Disonychia triangularis* Say. Two or three specimens, Cloudcroft. New to southern New Mexico.
- 100, 6971 *Haltica foliacea* Lec. Several specimens, Cloudcroft.
- 101, 10421? " *vicaria* Horn. One specimen, Cloudcroft. N.
- 102, 6987 *Epitrix cucumeris* Harr. Common at Wootens; feeding on corn, beans and potatoes.
- 103, 7027 *Phyllotreta albionica* Lec. Common at Cloudcroft.
- 104, 7059 *Psylliodes convexior* Lec. One specimen at Cloudcroft. N.
- 105, 7254 *Asida opaca* Say. Three specimens at Cloudcroft.
- 106, 7319 var. *Eleodes pedinoides* Lec., var. *neomexicanus* Blaisd. Common at Cloudcroft. N.
- 107, 7323 var. *Eleodes obsoletum* Say., var. *knausii* Blaisd. Common at Cloudcroft. N.
- 108, 7339 *Eleodes nigrina* Lec. A large, robust race, not very common at Cloudcroft and Wootens. New to southern N. Mex.
- 109, 7464 *Tribolium madens* Charp. A few specimens at Cloudcroft. N.
- 110, 7532 *Hypophiaenus parallelus* Melsh. Two specimens at Cloudcroft.
- 111, *Hymenorus* sp. near *occidentalis* Casey. Two specimens at electric light Alamogordo.
- 112, 7740? *Oxaxis pallida* Lec. Two specimens, electric light, Alamogordo.
- 113, 7762 *Pentaria fuscata* Lec. A few specimens at Cloudcroft. New to southern New Mexico.
- 114, 7820 *Mordellistena inornata* Smith. One specimen, Wootens. N.
- 115, 7033 " *nigricans* Melsh. Several specimens at Cloudcroft.

- 116, 7846 *Mordellistena unicolor* Lec. A few specimens at Cloudcroft and Wootens.
- 117, *Nolosus montanus* Casey. One specimen, Wootens. N.
- 118, *Anthicus* sp. One specimen at Wootens.
- 119, 7959 " *cervinus* Laf. Several specimens at Wootens.
- 120, 8056 *Macrobasis lauta* Horn. One specimen at light, Alamogordo. N.
- 121, 8138 *Cantharis puberula* Lec. One specimen, Wootens. N.
- 122, *Otiorhynchidæ* sp. One specimen, Cloudcroft.
- 123, 8546 *Desmoris constrictus* Say. Several specimens, Wootens.
- 124, *Smicronyx* sp. One specimen, Cloudcroft.
- 125, *Epimechus* n. sp. One specimen, Wootens.
- 126, 9928? *Cossonus crenatus* Horn. Two specimens under bark, Cloudcroft. N.
- 127, 9074 *Pityophorus nitidulus* Mann. Several specimens, Cloudcroft. New to southern New Mexico.
- 128, 9200 *Hylurgops rugipennis* Mann. Common at Cloudcroft. Five or six other undetermined species of Scolytids

A Supplementary List of the Diptera of New Jersey.

By CHARLES W. JOHNSON, Boston, Mass.

Since the publication of Prof. J. B. Smith's list of the insects of New Jersey, in 1900, I have been able to add 166 species, making the total number of Diptera recorded from the State 1359. Prof. Smith, in his investigations of the Culicidæ, has added 23 to the list, and worked out the early stages of 31 of the species. The dates of capture are recorded the same as in the main list, viz.,—the month in roman and the day in arabic numerals. In preparing this list, I am indebted to Prof. Smith for the list of Culicidæ, and to Messrs. E. Daecke, H. L. Viereck, Charles T. Greene and George M. Greene, for important data.

MYCETOPHILIDÆ.

- Platyura subterminatis* Say. Lucaston, ix, 2 (Daecke); Riverton, viii, 11.
- fasciata* Latr.? Lucaston, ix, 2 (Daecke).
- clausa* Coq., page 263, should read *Ceroplatus clausus* Coq.
- Mycetophilus vitrea* Coq. Dunnfield, Delaware Water Gap, viii, 12.

CULICIDÆ.

- Culex sollicitans* Walk. The common mosquito of the coast.
- læniorhynchus* Wied. Anglesea, vi, 21; ix, 6 (Smith).